

In re Application of: CHEN et al.

**Application No.:** 

10/697,412

**Examiner:** 

Filed:

October 30, 2003

**Group Art Unit:** 

For: SURFACE MICROMACHINED MECHANICAL MICROPUMPS AND FLUID SHEAR MIXING, LYSING, AND SEPARATION MICROSYSTEMS

CERTIFICATE UNDER 37 CFR 1.8(a)

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as First Class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-

1450, on February 11, 2004.

Michael K. Dixon

Commissioner for Patents Post Office Box 1450 Alexandria, VA 22313-1450

Date: February //, 2004

## INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to the Duty to Disclose under 37 C.F.R. §1.56, Applicants hereby disclose information that may be relevant to the Examiner's consideration of the above-identified application and the patentability of its claims.

In accordance with Rules 56, 97, and 98 of the Rules of Practice in Patent Cases (37 C.F.R. §§ 1.56, 1.97, and 1.98), Forms PTO/SB/08A & B with references cited therein are submitted for consideration by the Examiner. While the references provided in this Information Disclosure Statement may be material to patentability pursuant to 37 C.F.R. § 1.56, it is not intended to constitute an admission that any reference referred to herein is prior art for this invention unless specially designated as such. Also, in accordance with 37 C.F.R. § 1.97(g), the {WP166708,1}

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filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. § 1.56(a) exists.

This Information Disclosure Statement is being filed before the issuance of a first office action on the merits of the application (37 C.F.R. 1.97(b)(3)); therefore, no fee is believed to be due. However, if any fee is due, the Commissioner is authorized to charge any such fee and any additional fees due or credit any overpayment to Deposit Account No. 50-0951.

Respectfully submitted,

Michael K. Dixon, Reg. No. 46,665

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Docket No. 3303-23

PTO/SB/08A (08-03)

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Substitute for form 1449/PTO

Sheet 1

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known			
Application Number	10/697,412		
Filing Date	October 30, 2003		
First Named Inventor	CHEN et al.		
Art Unit			
Examiner Name			
Attorney Docket Number	3303-23		

<del>-</del>			U. S. PATEN	DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2 (if known)</sup>	0011771000	NAT-1-1	
	ļ	US- <sub>5,096,388</sub>	03/17/1992	Weinberg	
		US- <sub>5,585,011</sub>	12/17/1996	Saaski et al.	
		US- 5,705,318	01/06/1998	Mehregany et al.	
		US- <sub>5,788,468</sub>	08/04/1998	Dewa et al.	
		US- <sub>5,909,069</sub>	06/01/1999	Allen et al.	
		US- <sub>5,997,263</sub>	12/07/1999	Van Lintel et al.	
		US- 6,116,863	09/12/2000	Ahn et al.	
		US- 6,136,212	10/24/2000	Mastrangelo et al.	
		US- <sub>6,136,243</sub>	10/24/2000	Mehregany et al.	
		US- 6,227,809 B1	05/08/2001	Forster et al.	
		US- <sub>6.318,970 B1</sub>	11/20/2001	Backhouse	
		US- <sub>2002/0160561</sub> A1	10/31/2002	Ouellet et al.	
		US- 6,520,753 B1	02/18/2003	Grosjean et al.	
		US- <sub>6,551,083</sub> B2	04/22/2003	Weisener et al.	
		US- 6,579,068 B2	06/17/2003	Bridger et al.	
		US-			

		FORE	IGN PATENT DOC	JMENTS		
	Cite No.1	te Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	<b>-</b> 6
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T°
-		EP 0,641,934A1	03/08/1995	de Rooij, Nicolaas Frans		
		WO 03/018464 A2	03/06/2003	Sandhage, Kenneth H.		
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						<u> </u>
	1			.		L

Examiner	Date	!	
Signature	Considered		
Signature			

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not users. Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not users. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of users of users of users of users of users of users. See Kinds Codes of users of users. See Kinds Codes of users of use

Translation is attached.
This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application: Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/08B (08-03)

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Cabstitute for form 1449/PTO			Complete if Known			
		Application Number	10/697,412			
INF	ORMATIO	N DIS	CLOSURE	Filing Date	October 30, 2003	
STATEMENT BY APPLICANT		First Named Inventor	CHEN et al.			
				Art Unit		
(Use as many sheets as necessary)		Examiner Name				
Sheet	2	of	2	Attorney Docket Number	3303-23	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	,	SANDIA NATIONAL LABORATORIES, "Micromachines SUMMIT V Technology," http://www.mdl.sandia.gov/technologies/micromachines/summit5.html, Site Last Visited 10/4/2002.	
		SANDIA NATIONAL LABORATORIES, "Micromachines MEMS Overview," http://www.mdl.sandia.gov/technologies/micromachines/overview.html, Site Last Visited 10/4/2002.	
		KILANI, et al., "DESIGN AND ANALYSIS OF A POLYSILICON SURFACE MICROMACHINED VISCOUS DRAG SPIRAL PUMP," 15th ASCE Engineering Mechanics Conference, Columbia University, New York, NY, June 2-5, 2002.	
}			

Examiner		Date	
Signature	_	Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

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PTO/SB/21 (03-03) Approved for use through 04/30/2003. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE aperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Application Number 10/697.412 Filing Date TRANSMITTAL October 30, 2003 **FORM** First Named Inventor CHEN et al. Art Unit (to be used for all correspondence after initial filing) **Examiner Name** Attorney Docket Number 3303-23 Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance Communication Drawing(s) to a Technology Center (TC) Fee Transmittal Form Appeal Communication to Board Licensing-related Papers of Appeals and Interferences Fee Attached Appeal Communication to TC Petition (Appeal Notice, Brief, Reply Brief) Amendment/Reply Petition to Convert to a Proprietary Information Provisional Application After Final Power of Attorney, Revocation Status Letter Change of Correspondence Address Affidavits/declaration(s) Other Enclosure(s) (please Terminal Disclaimer Identify below): Extension of Time Request Form PTO/SB/08A & B; 3 References; Request for Refund **Express Abandonment Request** and 1 Postcard. CD, Number of CD(s) Information Disclosure Statement Remarks Certified Copy of Priority No fee is believed due. However, if any fee is due, the Commissioner is authorized to charge Document(s) any such fee and any additional fees due or credit any overpayment to Deposit Account No. Response to Missing Parts/ 50-0951. Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm AKERMAN SENTERFITT or Michael K. Dixon Individual Signature Date February [], 2004 CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date: February **//**, 2004 Typed or printed Michael K. Dixon

Signature

Date February 1, 2004

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Commissioner for Patents, Washington, DC 20231.

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRAUS		Complete if Known				
FEE TRANS	SWILLAL	Application Number	10/697,412			
for TV	2004	Filing Date	October 30, 2003			
for FY		First Named Inventor	CHEN et al.			
Effective 10/01/2003. Patent fees are		Examiner Name				
Applicant claims small entity status. See 37 CFR 1.27		Art Unit				
TOTAL AMOUNT OF PAYMENT	(\$) 0.00	Attorney Docket No.	3303-23			

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)					
Check Credit card Money Other None	3. ADDITIONAL FEES					
Order C	<u>Large</u>	Entity	Small	Entity		
Deposit Co. 2054	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
Account   50-0951	1051	130	2051		Surcharge - late filing fee or oath	
Number Deposit AKERMAN SENTERFITT	1052	50	2052		Surcharge - late provisional filing fee or cover sheet	
Name The Director is put to prize the velocity of that apply)	1053	130	1053		Non-English specification	<del></del>
The Director is authorized to: (check all that apply)  Charge fee(s) indicated below  Credit any overpayments	1812	2,520	1812	2,520	For filing a request for ex parte reexamination	<del></del>
Charge any additional fee(s) or any underpayment of fee(s)	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
Charge fee(s) indicated below, except for the filing fee	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
to the above-identified deposit account.	1251	110	2251	55	Extension for reply within first month	<u> </u>
FEE CALCULATION	1252	420	2252	210	Extension for reply within second month	<b></b>
1. BASIC FILING FEE Large Entity Small Entity	1253	950	2253	475	Extension for reply within third month	
Fee Fee Fee Fee Description Fee Paid	1254	1,480	2254	740	Extension for reply within fourth month	
Code (\$) Code (\$) 1001 770 2001 385 Utility filing fee	1255	2,010	2255	1,005	Extension for reply within fifth month	
1002 340 2002 170 Design filing fee	1401	330	2401	165	Notice of Appeal	
1003 530 2003 265 Plant filing fee	1402	330	2402	165	Filing a brief in support of an appeal	
1004 770 2004 385 Reissue filing fee	1403	290	2403	145	Request for oral hearing	<del></del>
1005 160 2005 80 Provisional filing fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding	
SUBTOTAL (1) (\$) 0.00	1452	110	2452	55	Petition to revive - unavoidable	
		1,330	2453	665	Petition to revive - unintentional	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1501	1,330	2501		Utility issue fee (or reissue)	
Extra Claims below Fee Paid	1502	480	2502		Design issue fee	<u> </u>
Total Claims	1503	640	2503		Plant issue fee	
Claims Multiple Dependent	1460	130	1460		Petitions to the Commissioner	<del></del>
	1807	50	1807		Processing fee under 37 CFR 1.17(q)	
Large Entity   Small Entity Fee Fee   Fee Fee Fee Description	1806	180	1806	5 180	Submission of Information Disclosure Stmt Recording each patent assignment per	
Code (\$)   Code (\$)	8021	40	8021	1 40	property (times number of properties)	
1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3	1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1203 290 2203 145 Multiple dependent claim, if not paid	1810	770	2810	385	For each additional invention to be	
1204 86 2204 43 ** Reissue independent claims	4004	770	2801	385	examined (37 CFR 1.129(b))  Request for Continued Examination (RCE)	
over original patent  1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1801 1802	770 900	1802	900	•	
(a) 0 00	Other fee (specify)					
	*Red	uced by	Basic	Filing F	ee Paid SUBTOTAL (3) (\$) 0.00	
**or number previously paid, if greater; For Reissues, see above	-					

(Complete (if applicable)) SUBMITTED BY Registration No. 46,665 Telephone 561-653-5000 Name (Print/Type) Michael K. Dixon February 11, 2004 Signature

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